





How to change rear strut mount on BMW X3 E83 diesel – replacement guide

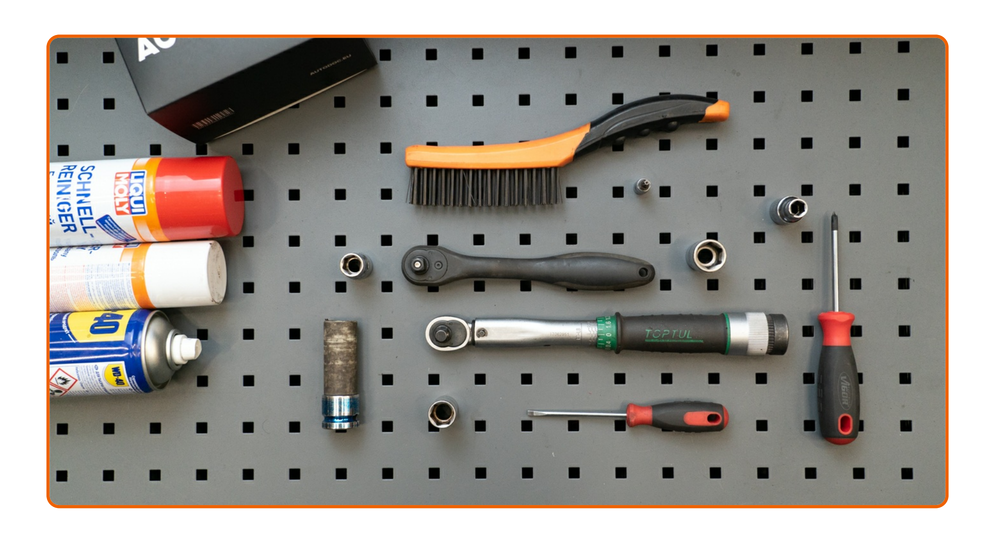

VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
BMW X3 (E83) 2.0 sd

The steps may slightly vary depending on the car design.

REPLACEMENT: STRUT MOUNT – BMW X3 E83. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 10
- Drive socket # 13
- Drive socket # 16
- Drive socket # 18
- Torx bit T25
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Phillips screwdriver
- Hydraulic transmission jack
- Wheel chock



Replacement: strut mount – BMW X3 E83. AUTODOC experts recommend:

- The replacement procedure is identical for the mounts of the right and left shock absorbers of the rear suspension.
- Both mounts of the rear shock struts should be replaced simultaneously.
- All work should be done with the engine stopped.

REPLACEMENT: STRUT MOUNT – BMW X3 E83. USE THE FOLLOWING PROCEDURE:

1



Secure the wheels with chocks.



2



Loosen the wheel mounting bolts. Use wheel impact socket #17.

3

Raise the rear of the car and secure on supports.

4



Unscrew the wheel bolts.

Replacement: strut mount – BMW X3 E83. AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5



Remove the wheel.

6

Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



7



Support the stub axle. Use a hydraulic transmission jack.

8



Unscrew the lower fastener of the shock absorber. Use a drive socket #18. Use a ratchet wrench.

9

Remove the fastening bolt.

10



Remove the support from under the stub axle.

AUTODOC recommends:

- Replacement: strut mount – BMW X3 E83. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

11

Lower the car.

12



Open the boot lid.

13



Detach the boot side lining.

14



Unscrew the fasteners of the boot front side lining. Use a Phillips screwdriver.

15



Unscrew the fasteners of the side plastic trim panel. Use a Phillips screwdriver.

16



Remove the side plastic cover.

17



Detach the bulb connector.

18

Raise a little the top protective cover.

19

Remove the seat belt trim cover.

20



Unscrew the fastener of the boot side lining. Use a drive socket #10. Use Torx T25. Use a ratchet wrench. Use a Phillips screwdriver.

21

Remove the clips of the boot side lining. Use a flat screwdriver.

22



Remove the bracket of the top protective cover.

23



Remove the seat belt trim cover. Use a flat screwdriver.

24



Unscrew the fastener and remove the boot side sound insulation. Use a Phillips screwdriver.

25



Detach the bulb connector.

26

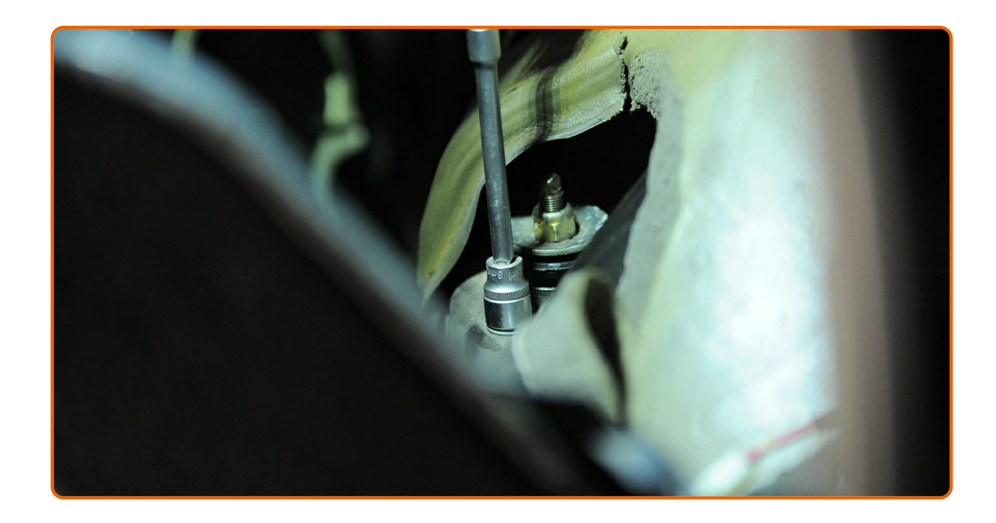
Remove the protective cap of the shock absorber mount.



27

Clean the fasteners of the shock absorber upper mount. Use a wire brush. Use WD-40 spray.

28



Unscrew the upper fastener of the shock absorber. Use a drive socket #13. Use a ratchet wrench.

Replacement: strut mount – BMW X3 E83. Tip from AUTODOC experts:

- To avoid injuries, hold the shock absorber when undoing the fastening bolts.

29



Remove the shock absorber.

30



Clean the shock absorber rod fastener. Use a wire brush. Use WD-40 spray.

31



Remove the shock absorber piston rod fastening. Use a drive socket #16. Use a ratchet wrench.

32



Remove the shock absorber upper mount.

Replacement: strut mount – BMW X3 E83. Tip:

- Examine the shock absorber dust cap and the bump stop. Replace them if necessary.

33



Install the shock absorber upper mount.

34



Tighten the shock absorber rod nut. Use a drive socket #13. Use a flat screwdriver. Use a torque wrench. Tighten it to 45 Nm torque.



35



Clean the shock absorber mounting seats. Use a wire brush. Use WD-40 spray.

36

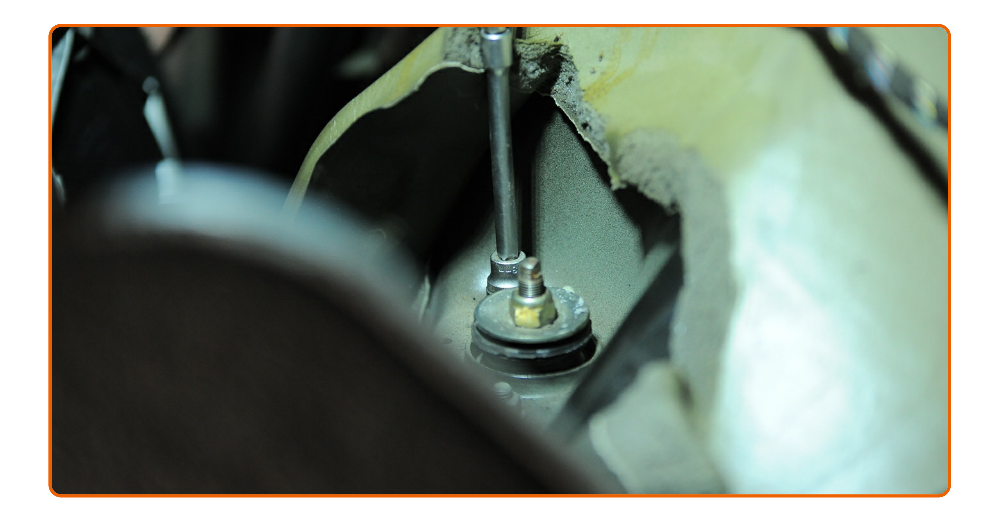


Place the shock absorber in the wheel arch and secure it.

AUTODOC recommends:

- Important! Hold the shock absorber while screwing in the fastening bolts. BMW X3 E83

37



Tighten the top shock absorber fastening. Use a drive socket #13. Use a torque wrench. Tighten it to 45 Nm torque.

38

Treat the shock absorber fasteners. Use copper grease.

39

Install the protective shock absorber mounting cap.

40



Attach the bulb connector.

41



Install the boot side sound insulation and screw in its fasteners. Use a Phillips screwdriver.

42



Install the bracket of the top protective cover.

43

Install the protective cover.

44



Screw in the fastener of the boot side lining. Use a drive socket #10. Use Torx T25. Use a ratchet wrench.

45



Install the side plastic panel. Use a flat screwdriver.

46

Screw the fasteners of the side plastic trim panel. Use a Phillips screwdriver.

47



Attach the bulb connector.

48



Screw the fasteners of the boot front side lining. Use a Phillips screwdriver.

49

Attach the side lining of the boot.

50



Screw in the fastener of the boot side lining. Use a drive socket #10. Use Torx T25. Use a ratchet wrench.

51



Install the clips of the boot side lining.

52

Install the seat belt trim cover.

53



Close the lid of the luggage compartment.

54



Raise the rear of the car and secure on supports.

55



Support the stub axle. Use a hydraulic transmission jack.

56

Install the fastening bolt.

57



Tighten the lower fastener of the shock absorber. Use a drive socket #18. Use a torque wrench. Tighten it to 75 Nm torque.

58

Treat the shock absorber fasteners. Use copper grease.

59



Remove the support from under the stub axle.

AUTODOC recommends:

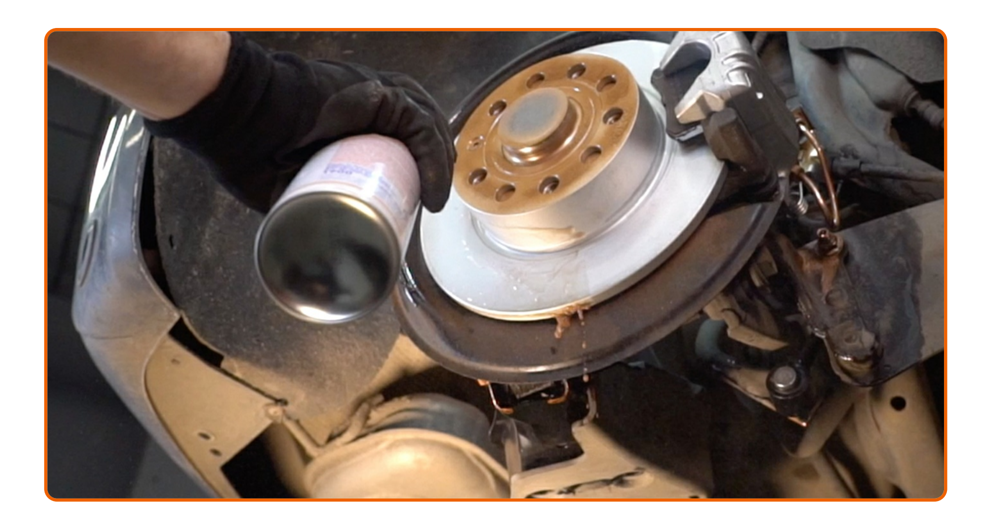
- BMW X3 E83 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

60



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

61



Clean the brake disk surface. Use a brake cleaner.



Replacement: strut mount – BMW X3 E83. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

62



Install the wheel.

Replacement: strut mount – BMW X3 E83. AUTODOC experts recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

63



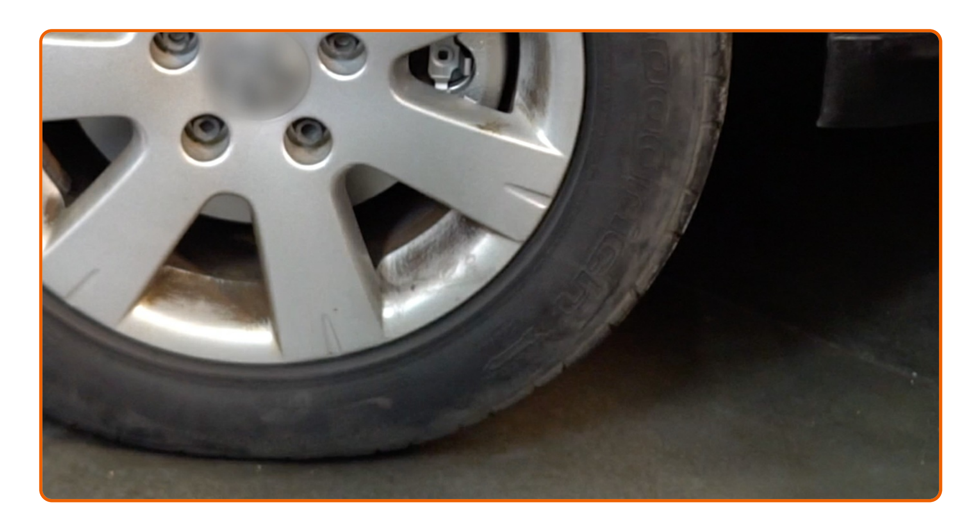
Screw in the wheel bolts. Use wheel impact socket #17.

64



Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.

65



Remove the jacks and chocks.

DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

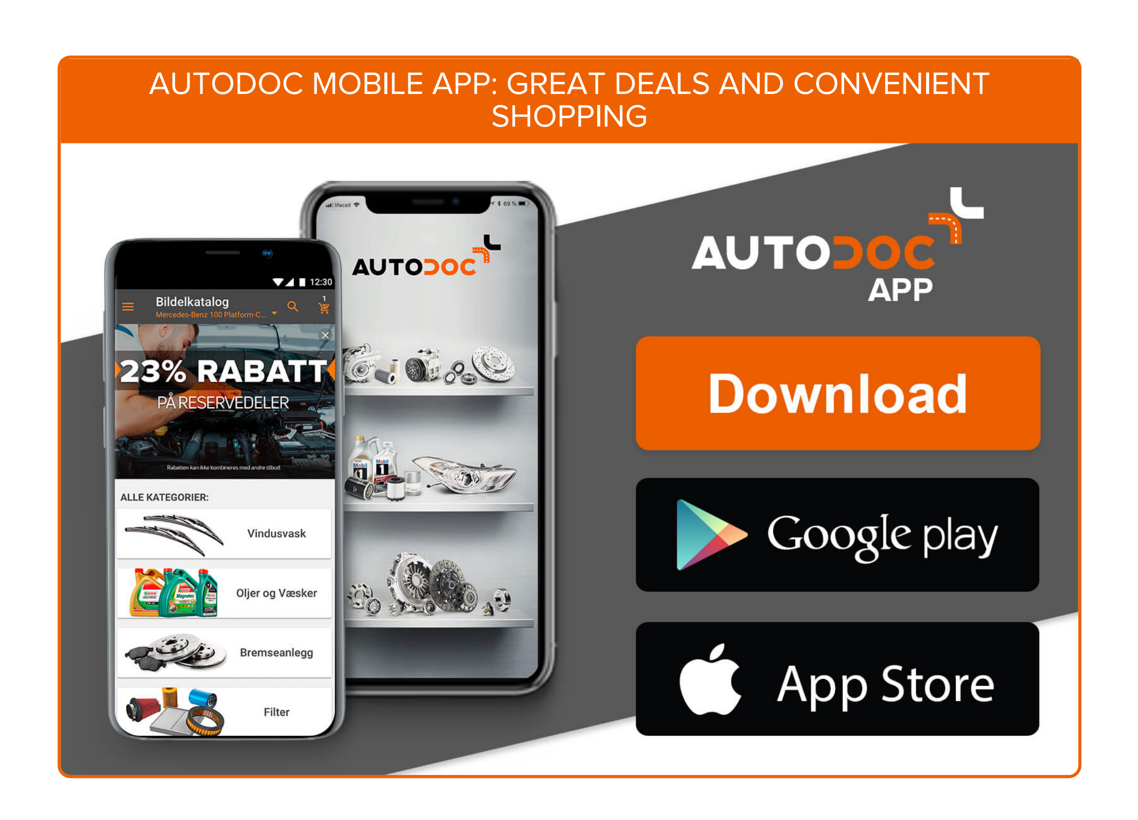
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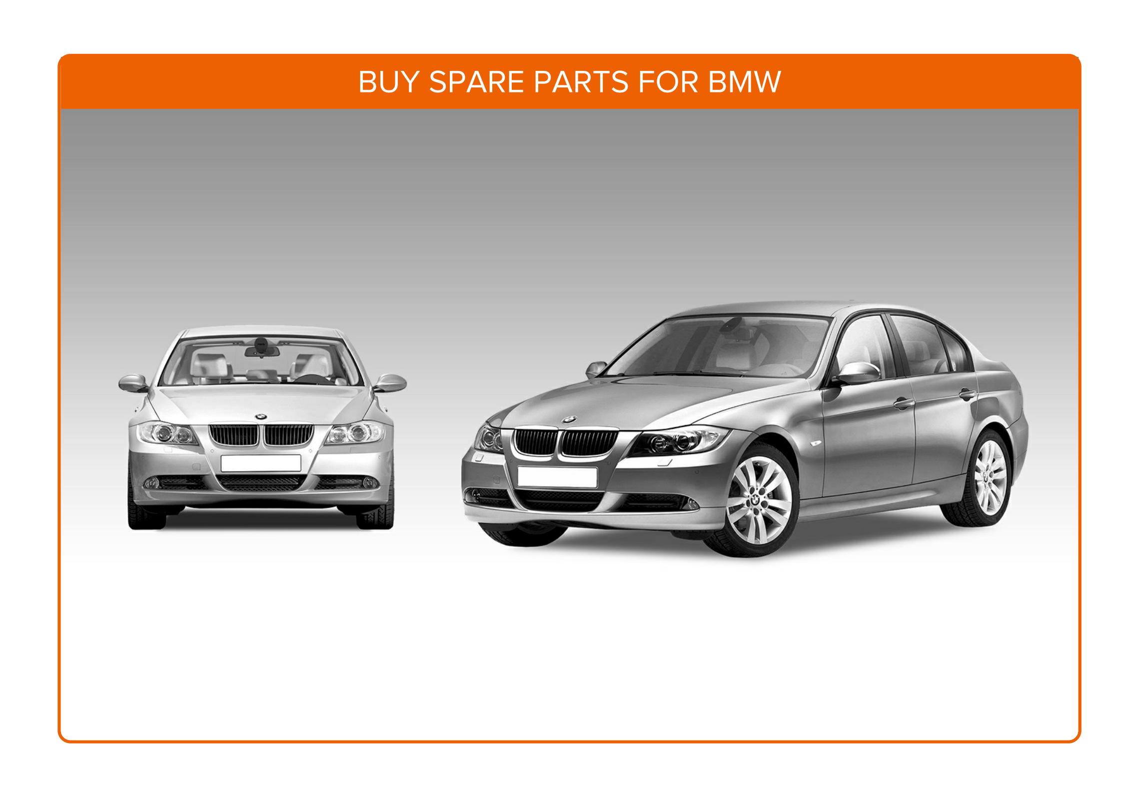
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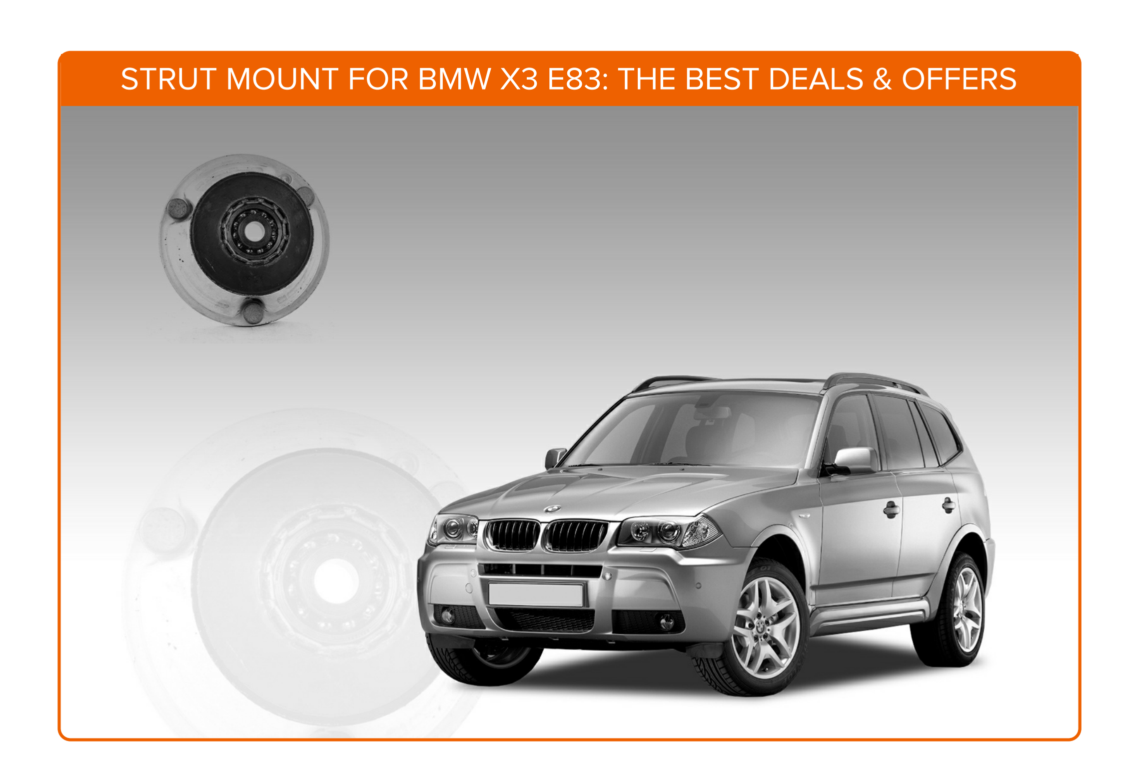
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STRUT MOUNT: A WIDE SELECTION


CHOOSE CAR PARTS FOR BMW X3 E83


STRUT MOUNT FOR BMW: BUY NOW
BMW



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